

Rec'd PCT/PTO 15 DEC 2004

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/20522

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H01M 4/00, 4/58
US CL : 429/29, 231.5; 252/519.12, 520.2; 423/608; 501/134

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 429/29, 231.5; 252/519.12, 520.2; 423/608; 501/134

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,281,496 A (CLARKE et al) 25 January 1994 (25.01.1994), column 4, lines 50-68 and column 11, line 35 to column 12, line 30.	1
Y		10-11, 14-15, 19-20
X	US 4,772,362 A (MARTIN et al) 20 September 1988 (20.09.1988), column 1, lines 8-16, column 2, lines 3-20, column 4, lines 35-51, the examples and the abstract.	1-3, 6, 8, 16-17
Y		5, 12
X	US 4,898,652 A (BAMMEL et al) 06 February 1990 (06.02.1990), column 1, lines 12-30, column 2, lines 34-64, column 5, line 64 to column 6, line 36 and the abstract.	1-3, 8, 16-17
Y		7, 12,

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

23 September 2002 (23.09.2002)

Date of mailing of the international search report

03 OCT 2002

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

PCT/US02/20522

Continuation of B. FIELDS SEARCHED Item 3:

EAST

search terms: dendrite, methane sulfonic acid, polyvinyl sulfuric acid, sulfurous acid, zinc brightener, Magnelli, Magneli, titanium suboxide, titanium oxide, Ebonex, glassy carbon